ELSEVIER

Journal of Electroanalytical Chemistry 444 (1998) 277–278

JOURNAL OF ELECTROANALYTICAL CHEMISTRY

Volume Contents

Preliminary Notes

Origin of the effect of ion nature on the differential capacity of an interface between two immiscible electrolyte solutions
Z. Samec, A. Trojánek, J. Langmaier 1

Electrosynthesis of indium sulfide on sulfur-modified polycrystalline gold electrodes
N.R. de Tacconi, K. Rajeshwar. 7

Regular Papers

Ligand-catalysed metal ion reduction. Voltammetric determination of rate and formation constants for the nickel complex with 6-mercaptopurine-9-D-riboside
A. Ion, F. Gabriel Bănică, C. Luca 11

Multicomponent hydrous oxide films grown on gold in acid solution
L.D. Burke, P.F. Nugent 19

Electro-oxidation of ethanol on gold: analysis of the reaction products and mechanism
G. Tremiliosi-Filho, E.R. Gonzalez, A.J. Motheo, E.M. Belgsir, J.-M. Léger, C. Lamy 31

In situ FTIRS study of the electrocatalytic oxidation of carbon monoxide and methanol at platinum–ruthenium bulk alloy electrodes . . . . . A. Kabbabi, R. Faure, R. Durand, B. Beden, F. Hahn, J.-M. Leger, C. Lamy 41

Silicon surface states and subsurface hydrogen
A. Belaidi, J.-N. Chazalviel, F. Ozanam, O. Gorochov, A. Chari, B. Fotouhi, M. Etman 55

Glucose oxidation at bismuth-modified platinum electrodes
G. Wittstock, A. Strübing, R. Szargan, G. Werner 61

An in situ STM investigation of uracil on Ag(111)
M. Cavallini, G. Aloisi, M. Bracali, R. Guidelli 75

Moving front phenomena in the switching of conductive polymers
J.C. Lacroix, K. Fraoua, P.C. Lacaze 83

Comparison of methanol oxidations on Pt, Pt|Ru and Pt|Sn electrodes
Y. Morimoto, E.B. Yeager 95

Electrochemical behaviour of different binaphthalene crown ethers: Part 2: Novel strategy based on in situ removable bromine atom protecting groups for the electrosynthesis of polybinaphthalenes bearing perylene crown ethers as potentially redox switchable macromolecular hosts
C. Belloncle, P. Cauliez, J. Simonet 101

Phase separation of binary self-assembled thiol monolayers composed of 1-hexadecanethiol and 3-mercaptopropionic acid on Au(111) studied by scanning tunneling microscopy and cyclic voltammetry
D. Hobara, M. Ota, S.-i. Imabayashi, K. Niki, T. Kakiuchi 113

Short Communications

A rapid half-cell technique for the pre-screening of polymer fuel cell catalysts
G. TamizhMani, J.P. Dodelet, D. Guay, L. Dignard-Bailey 121

Electrochemical quartz crystal microbalance investigation of surface fouling due to phenol oxidation
J. Wang, M. Jiang, F. Lu 127

Guide for authors 133
Controlled Keywords. 141

Preliminary Notes

Monomolecular films of a nickel(II) pentaazamacrocyclic complex for the electrocatalytic oxidation of hydrogen peroxide at gold electrodes
K.V. Gobi, K. Tokuda and T. Ohsaka 145

The voltammetry of C_{84} isomers
M.R. Anderson, H.C. Dorn, S.A. Stevenson and S.M. Dana 151

Regular Papers

Calorimetry close to the boiling temperature of the D_2O/Pd electrolytic system
G. Mengoli, M. Bernardini, C. Manduchi and G. Zannoni 155

Impedance study of the electrochemical reduction of adrenochrome on glassy carbon
Z. Zhang, J. Huang, X. Wu, W. Zhang and S. Chen 169

Electrochemical impedance spectroscopy of conductor–insulator composite electrodes: properties in the blocking and diffusive regimes
J. Navarro-Laboulais, J. Trijueque, J.J. García-Jareño, D. Benito and F. Vicente 173

The electrode reactions of $Fe(CN)_6^{3-}$ and $Fe(CN)_6^{4-}$ ions studied at temperatures below the melting point of stoichiometric electrolytes
M. Opallo 187

Nucleation and growth of metal catalysts. Part I. Electrodeposition of platinum on tungsten
A. Kelaidopoulou, G. Kokkinidis and A. Milchev 195

Chemical deposition of foreign metals on a Pd sheet and its application to continuous hydrogenation of 4-methylstyrene
Y. Yoshida, S. Ogata, S. Nakamatsu, T. Shimamune, H. Inoue and C. Iwakura 203

Novel voltammetric responses of a 1,1′-ferrocene bis(methylene aza-18-crown-6) receptor to group 1 and 2 metal cations in acetonitrile
Z. Chen, A.J. Pilgrim and P.D. Beer 209

Electrochemical studies of ion transfer at micro-machined supported liquid membranes
C. Beriet and H.H. Girault 219

Self-assembled monolayers with biospecific affinity for NAD(H)-dependent dehydrogenases: characterization by surface plasmon resonance combined with electrochemistry 'in situ'
D.D. Schlereth and R. P.H. Kooyman 231

Mechanism of the electrochemical reduction of benzyl chlorides catalysed by Co(salen)
A.A. Isse, A. Gennaro and E. Vianello 241

Anodic electrodeposition of iridium oxide films
M.A. Petit and V. Plichon 247

Electroreduction of CO_2 catalyzed by polymeric $[Ru(bpy)(CO)_2]_n$ films in aqueous media: parameters influencing the reaction selectivity
S. Chardon-Noblat, A. Deronzier, R. Ziessel and D. Zsoldos 253

A comparative kinetic investigation of ethylcinnamate electrohydrodimerization on mercury and liquid gallium
G. Pezzatini, S. Becagli, M. Innocenti and R. Guidelli 261

Author index 271
Subject index 273
Volume contents 277